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Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
3	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
4	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
5	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	RCC(M25)	Compressive Strength(7days and 28days)	4 set /31-50 cum	40.36	8	8
8	RCC(M20)	Compressive Strength(7days and 28days)	1 Set	–	2	2
9	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
10	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

JE AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-01-30-25** **Date: 08-08-22**
Project Name	:	Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town
Agency	:	Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094
Customer's Reference	:	EE(Project)/Ynk Zone/WO/195/2020-21
Date of Receipt	:	05-08-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	06-08-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

A.E.E. (Project)

Sl.No	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-01-30-25** **Date: 05-09-22**
Project Name	:	Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town
Agency	:	Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094
Customer's Reference	:	EE(Project)/Ynk Zone/WO/195/2020-21
Date of Receipt	:	05-08-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	06-08-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

A.E.E. (Project)

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-01-30-25**	**Date: 08-08-22**
Project Name	:	Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town	
Agency	:	Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094	
Customer Reference	:	EE(Project)/Ynk Zone/WO/195/2020-21	
Date of Receipt	:	05-08-22	
Sample Type/ Size	:	20mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of Testing	:	05-08-22	

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A.E.E.(Project)

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-01-30-25** **Date: 08-08-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.7**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.4**	
3	Specific Gravity	**2.65**	–
4	Bulk Density(Loose) (Kg/l)	**1.53**	–
5	Bulk Density(Compacted) (Kg/l)	**1.57**	–
6	Water Absorption(%)	**0.19**	–
7	Aggregate crushing Value(%)	**25.6**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.5**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

A.E.E. (Project)

* The results obtained are satisfactory as per standard requirements.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-01-30-25** **Date: 08-08-22**

Project Name : Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town

Agency : Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094

Customer's Reference : EE(Project)/Ynk Zone/WO/195/2020-21

Date of Receipt : 05-08-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 05-08-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	145	231	23.1	76.9	60-95	75-100	85-100	95-100
4	1.18 mm	156	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	188	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	175	750	75.0	25.0	5-20	8-30	12-40	15-50
7	150 micron	162	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

E.E. (Project)

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TEST REPORT OF FINE AGGREGATE

Date: 08-08-22

Lab ID : CP-2023-01-30-25

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.4	–
2	Specific Gravity	2.59	–
	Material finer than 75 micron(%)	8.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

A.E.E. (Project)

- The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-01-30-25** **Date: 08-08-22**
Project Name	:	Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town
Agency	:	Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094
Customer's Reference	:	EE(Project)/Ynk Zone/WO/195/2020-21
Date of Receipt	:	05-08-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test:	:	06-08-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe550	8	0.391	552	692	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe550	12	0.888	564	688	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe550	16	1.581	572	674	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe550	20	2.476	584	693	19.0%	Satisfactory	Satisfactory
6	Sunvik	Fe550	25	3.472	597	719	18.0%	Satisfactory	Satisfactory
7	Sunvik	Fe550	32	3.472	597	722	18.0%	Satisfactory	Satisfactory

E.E. (Project)

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/11/2022

ID : CP-2023-01-30-25

ject Name : Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town

ncy : Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094

tomer's Reference : EE(Project)/Ynk Zone/WO/195/2020-21

of Receipt : 25-11-22

tomer ID : Lintel Concrete

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 30/11/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Lintel Concrete	M20	23/11/2022	30/11/2022	149.82 X 151.60 X 151.35	22713	8.159	412.5	18.2	18.4
Lintel Concrete	M20	23/11/2022	30/11/2022	150.60 X 151.93 X 151.84	22881	8.647	415.0	18.1	
Lintel Concrete	M20	23/11/2022	30/11/2022	151.93 X 150.08 X 151.64	22802	8.473	432.3	19.0	

A.E.E. (Project)

: results obtained are satisfactory as per standard requirements.

CIVIL Pro BANGALORE Sig..... Date.....

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TEST REPORT OF CEMENT CONCRETE CUBES

) ID	:	**CP-2023-01-30-25** **Date: 21/12/2022**
ject Name	:	Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town
ncy	:	Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094
tomer's Reference	:	EE(Project)/Ynk Zone/WO/195/2020-21
e of Receipt	:	25-11-22
tomer ID	:	Lintel Concrete
ıple Type /Size	:	150X150X150 mm
ıple grade/Age	:	M20 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	21/12/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Lintel Concrete	M20	23/11/2022	21/12/2022	151.82 X 151.08 X 151.27	22938	9.043	532.5	23.2	23.3
Lintel Concrete	M20	23/11/2022	21/12/2022	149.66 X 151.35 X 149.20	22652	8.310	517.3	22.8	
Lintel Concrete	M20	23/11/2022	21/12/2022	151.52 X 151.51 X 151.35	22957	8.158	545.0	23.7	

e results obtained are satisfactory as per standard requirements.

A.E.E. (Project)

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2023-01-30-25 **Date: 06/10/2022**

ect Name : Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town

ıcy : Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094

omer's Reference : EE(Project)/Ynk Zone/WO/195/2020-21

of Receipt : 01-10-22

omer ID : Column Concrete

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 06/10/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Column Concrete	M20	29/09/2022	06/10/2022	150.18 X 150.63 X 150.38	22621	8.446	415.8	18.4	18.6
Column Concrete	M20	29/09/2022	06/10/2022	151.21 X 150.17 X 149.80	22708	8.843	417.6	18.4	
Column Concrete	M20	29/09/2022	06/10/2022	151.52 X 150.34 X 149.28	22781	8.964	431.0	18.9	

results obtained are satisfactory as per standard requirements.

A.E.E. (Project)

A.E.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/10/2022

ID : CP-2023-01-30-25

ect Name : Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town

ncy : Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094

omer's Reference : EE(Project)/Ynk Zone/WO/195/2020-21

of Receipt : 01-10-22

omer ID : Column Concrete

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 27/10/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Column Concrete	M20	29/09/2022	27/10/2022	150.60 X 151.21 X 151.34	22772	8.433	537.1	23.6	23.3
Column Concrete	M20	29/09/2022	27/10/2022	149.65 X 150.56 X 151.46	22532	9.043	507.4	22.5	
Column Concrete	M20	29/09/2022	27/10/2022	149.08 X 151.74 X 151.16	22622	8.572	541.6	23.9	

esults obtained are satisfactory as per standard requirements.

.E.E. (Project)

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/10/2022

) ID	:	CP-2023-01-30-25
ject Name	:	Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town
ncy	:	Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094
tomer's Reference	:	EE(Project)/Ynk Zone/WO/195/2020-21
e of Receipt	:	01-10-22
tomer ID	:	Column Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	06/10/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Column Concrete	M20	29/09/2022	06/10/2022	151.69 X 151.62 X 151.25	22999	9.043	433.4	18.8	18.7
Column Concrete	M20	29/09/2022	06/10/2022	151.96 X 150.27 X 151.89	22835	8.503	420.7	18.4	
Column Concrete	M20	29/09/2022	06/10/2022	149.84 X 150.59 X 149.28	22565	8.537	426.1	18.9	

A.E.E. (Project)

results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/10/2022

b ID	:	**CP-2023-01-30-25**
oject Name	:	Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town
;ency	:	Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094
stomer's Reference	:	EE(Project)/Ynk Zone/WO/195/2020-21
te of Receipt	:	01-10-22
stomer ID	:	Column Concrete
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	27/10/2022

. o.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Column Concrete	M20	29/09/2022	27/10/2022	149.79 X 150.80 X 149.97	22589	8.947	524.7	23.2	23.2
	Column Concrete	M20	29/09/2022	27/10/2022	151.02 X 151.58 X 151.55	22892	8.580	517.6	22.6	
	Column Concrete	M20	29/09/2022	27/10/2022	151.66 X 150.49 X 150.18	22822	8.877	545.7	23.9	

A.E.E. (Project)

ne results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2023-01-30-25 **Date: 24/01/2023**
ject Name	:	Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town
ncy	:	Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094
tomer's Reference	:	EE(Project)/Ynk Zone/WO/195/2020-21
e of Receipt	:	19-01-23
tomer ID	:	Slab Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	24/01/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Slab Concrete	M20	17/01/2023	24/01/2023	150.43 X 149.19 X 150.72	22442	9.080	419.2	18.7	18.4
Slab Concrete	M20	17/01/2023	24/01/2023	151.01 X 151.78 X 149.98	22920	8.505	422.3	18.4	
Slab Concrete	M20	17/01/2023	24/01/2023	150.61 X 151.24 X 151.71	22779	8.113	412.4	18.1	

A.E.E. (Project)

e results obtained are satisfactory as per standard requirements.

CIVIL Pro ★ Sig..... Date..... ★ BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

ıb ID	:	CP-2023-01-30-25 **Date: 14/02/2023**
oject Name	:	Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town
gency	:	Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094
stomer's Reference	:	EE(Project)/Ynk Zone/WO/195/2020-21
te of Receipt	:	19-01-23
stomer ID	:	Slab Concrete
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	14/02/2023

S. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Slab Concrete	M20	17/01/2023	14/02/2023	149.89 X 149.35 X 150.01	22386	8.893	523.0	23.4	23.1
2	Slab Concrete	M20	17/01/2023	14/02/2023	151.18 X 150.56 X 150.04	22761	8.763	506.1	22.2	
3	Slab Concrete	M20	17/01/2023	14/02/2023	151.37 X 149.79 X 150.99	22674	8.155	538.1	23.7	

A.E.E. (Project)

ıe results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

ıb ID	:	CP-2023-01-30-25 **Date: 30/11/2022**
oject Name	:	Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town
gency	:	Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094
stomer's Reference	:	EE(Project)/Ynk Zone/WO/195/2020-21
te of Receipt	:	25-11-22
stomer ID	:	Chajja Concrete
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	30/11/2022

L. o.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Chajja Concrete	M20	23/11/2022	30/11/2022	149.42 X 149.90 X 150.46	22398	8.493	422.3	18.9	18.7
	Chajja Concrete	M20	23/11/2022	30/11/2022	150.17 X 149.81 X 150.88	22497	8.761	426.0	18.9	
	Chajja Concrete	M20	23/11/2022	30/11/2022	150.94 X 150.57 X 150.84	22727	8.342	417.6	18.4	

A.E.E. (Project)

ıe results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/12/2022

Lab ID : CP-2023-01-30-25
Project Name : Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town
Agency : Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094
Customer's Reference : EE(Project)/Ynk Zone/WO/195/2020-21
Date of Receipt : 25-11-22
Customer ID : Chajja Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 21/12/2022

Sl. No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Chajja Concrete	M20	23/11/2022	21/12/2022	149.97 X 149.70 X 150.49	22450	8.182	536.3	23.9	23.3
2	Chajja Concrete	M20	23/11/2022	21/12/2022	149.43 X 150.86 X 150.29	22543	9.007	499.4	22.2	
3	Chajja Concrete	M20	23/11/2022	21/12/2022	150.56 X 149.80 X 151.08	22554	8.948	538.6	23.9	

A.E.E. (Project)

The results obtained are satisfactory as per standard requirements.

CIVIL Pro ★ Sig..... Date..... ★ BANGALORE

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TEST REPORT FOR SAND MASONRY MORTARS

Date: 05-09-22

Lab ID	:	CP-2023-01-30-25
Project Name	:	Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town
Agency	:	Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094
Customer's Reference	:	EE(Project)/Ynk Zone/WO/195/2020-21
Date of Receipt	:	02-09-22
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-09-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	75	75	7.5	92.5	90-100
3	1.18 mm	205	280	28.0	72.0	70-100
4	600 micron	138	418	41.8	58.2	40-100
5	300 micron	118.5	536.5	53.7	46.4	5-70
6	150 micron	415.5	952	95.2	4.8	0-15
7	Pan	48	1000	100.0	0.0	0

A.E.E. (Project)

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2023-01-30-25 Date: 05-09-22

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

A.E.E. (Project)

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro BANGALORE Sig..... Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

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TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2023-01-30-25** **Date: 06-09-22**
Project Name	:	Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town
Agency	:	Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094
Customer's Reference	:	EE(Project)/Ynk Zone/WO/195/2020-21
Date of Receipt	:	02-09-22
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-09-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	26	26	2.6	97.4	95-100
3	2.36 mm	12	38	3.8	96.2	95-100
4	1.18 mm	45	83	8.3	91.7	90-100
5	600 micron	93	176	17.6	82.4	80-100
6	300 micron	192	368	36.8	63.2	20-65
7	150 micron	505	873	87.3	12.7	0-15
8	Pan	127	1000	100	0	---

A.E.E. (Project)

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TEST REPORT FOR PLASTER SAND

Date: 06-09-22

Lab ID	:	CP-2023-01-30-25
Project Name	:	Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town
Agency	:	Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094
Customer's Reference	:	EE(Project)/Ynk Zone/WO/195/2020-21
Date of Receipt	:	02-09-22
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-09-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	26	26	2.6	97.4	95-100
3	2.36 mm	12	38	3.8	96.2	95-100
4	1.18 mm	45	83	8.3	91.7	90-100
5	600 micron	93	176	17.6	82.4	80-100
6	300 micron	192	368	36.8	63.2	20-65
7	150 micron	505	873	87.3	12.7	0-15
8	Pan	127	1000	100	0	---

A.E.E. (Project)

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-01-30-25 Date: 06-09-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

A.E.E. (Project)

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 12-11-22

Lab ID : CP-2023-01-30-25

Project Name : Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town

Agency : Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094

Customer's Reference : EE(Project)/Ynk Zone/WO/195/2020-21

Date of Receipt : 08-11-22

Sample Type/Size : Solid concrete blocks size (400X200X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 08-11-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	198	198	15878	31.534	1986.1	2025.1	Not less than 1800Kg/m^3
2	398	201	202	16160	32.633	2019.4		
3	402	203	199	16240	33.612	2069.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

A.E.E. (Project)

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Certificate No.: TC-5548

Lab ID : CP-2023-01-30-25 Date: 12-11-22

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	202	202	
2	400	201	199	
3	399	201	201	
4	403	200	201	
5	400	201	201	
6	400	202	200	
7	403	202	200	
8	401	202	199	
9	404	200	201	
10	402	199	202	
11	400	202	200	
12	401	200	203	
13	401	200	200	
14	401	201	199	
15	402	201	200	
16	401	202	202	
17	401	200	202	
18	400	201	202	
19	402	203	203	
20	404	201	201	
Average of 20	401	201		

Length : ± 5mm
Breadth : ± 3mm
Height : ± 3mm

A.E.E. (Project)

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No : TC-9548

CP-2023-01-30-25

Date: 12-11-22

LAB
COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length mm	Breadth mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	202	80726	418.0	5.2	5.1
2	400	202	80675	415.3	5.1	
3	399	201	80143	420.9	5.3	
4	403	201	81099	420.2	5.2	
5	400	200	79875	410.3	5.1	
6	400	201	80630	418.3	5.2	
7	403	202	81520	405.3	5.0	
8	401	202	80766	411.6	5.1	

A.E.E (Project)

Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Grade	Compressive strength	
	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

CIVIL Pro
Sig.....
Date.....
BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2023-01-30-25 Date: 12-11-22

Project Name : Construction of Gym Room above existing Swimming Pool Office Building and other developmental works in Allalasandra Ward No.04 Yelahanka Satellite Town

Agency : Sri. D.K.Nagaraj (M/s DKN Associates), #E-301, Utsav, Seenappa Layout, New BEL Road, Bangalore-560094

Customer's Reference : EE(Project)/Ynk Zone/WO/195/2020-21

Date of Receipt : 08-11-22

Sample Type/Size : Solid concrete blocks size (400X100X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 08-11-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	100	199	8000	14.485	1810.7	1961.5	Not less than 1800Kg/m^3
2	403	101	198	8059	14.958	1856.0		
3	399	98	203	7938	17.605	2217.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

A.E.E. (Project)

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Certificate No : TC-5548

CP-2023-01-30-25

Date: 12-11-22

Lab ID

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	103	201	
2	404	100	202	
3	400	100	199	
4	402	103	202	
5	400	103	201	
6	403	100	203	
7	402	101	202	
8	400	101	199	
9	402	101	202	
10	400	103	199	
11	403	101	201	
12	401	101	199	
13	400	103	201	
14	404	100	202	
15	401	99	200	
16	402	100	203	
17	404	100	202	
18	403	102	199	
19	401	100	199	
20		101	200	
Average of 20	402	101	201	

Length : ± 5mm
Breadth : ± 3mm
Height : ± 3mm

A.E.E. (Project)

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Lab ID : CP-2023-01-30-25

Date: 12-11-22

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length mm	Breadth mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	103	41157	183.1	4.4	4.6
2	404	100	40359	186.9	4.6	
3	400	100	39956	184.2	4.6	
4	402	103	41373	183.3	4.4	
5	400	103	41137	183.9	4.5	
6	403	100	40440	183.9	4.5	
7	402	101	40667	186.7	4.6	
8	400	101	40625	189.9	4.7	

A.E.E. (Project)

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Grade	Compressive strength	
	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
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* The Results Obtained are Satisfactory as per Standard Requirements

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